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## **The rhizomicrobiome of Sorghum ; impact on plant growth and stress tolerance**

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### **Citation**

Schlemper, T. R. (2019, January 30). *The rhizomicrobiome of Sorghum ; impact on plant growth and stress tolerance*. NIOO-thesis. Retrieved from <https://hdl.handle.net/1887/68467>

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**Author:** Schlemper, T.R.

**Title:** The rhizomicrobiome of Sorghum: impact on plant growth and stress tolerance

**Issue Date:** 2019-01-30

## About the author

Thiago Roberto Schlemper was born on 20<sup>th</sup> of November 1981 in Rio do Sul, Santa Catarina, Brazil. In 2004 he obtained his Bachelor degree in Ecology at the University for Development of the Itajaí High Valley (UNIDAVI) in Ituporanga, Santa Catarina, Brazil. In 2005 he worked with Faunistic and Floristic Inventory at the Amazon Rainforest. In 2009 he started to give lectures at Leonardo da Vinci's Educational Center (UNIASSELVI) in Indaial, Santa Catarina, Brazil. In the 2011 he started his Master in Environmental engineering at Regional University of Blumenau (FURB) in Blumenau, Santa Catarina, Brazil. During his master he studied the on-farm production of arbuscular mycorrhizal fungi inocula using lignocellulosic agrowastes under the supervision of Dr. Sidney Luiz Stürmer. In 2013 he obtained his M.Sc. degree and moved to The Netherlands to start his PhD project described in this thesis at the Department of Microbial Ecology of the Netherlands Institute of Ecology (NIOO-KNAW) and the Institute of Biology at Leiden University under the supervision of Prof. Dr. Hans van Veen, Prof. Dr. Jos Raaijmakers and Dr. Eiko Kuramae.





## List of Publications

**Schlemper, T. R.**, & Stürmer, S. L. (2014). On farm production of arbuscular mycorrhizal fungi inoculum using lignocellulosic agrowastes. *Mycorrhiza*, 24(8), 571-580.

**Schlemper, T. R.**, Leite, M. F., Lucheta, A. R., Shimels, M., Bouwmeester, H. J., van Veen, J. A., and Kuramae, E. E. (2017). Rhizobacterial community structure differences among sorghum cultivars in different growth stages and soils. *FEMS Microbiology Ecology*, 93(8).

**Schlemper, T. R.**, van Veen, J. A., & Kuramae, E. E. (2017). Co-Variation of Bacterial and Fungal Communities in Different Sorghum Cultivars and Growth Stages is Soil Dependent. *Microbial ecology*, 1-10.

**Schlemper, T. R.**, Pulcrano, A.S., de Souza, F.A., Magalhães, P.C., Van Veen, J.A., Raaijmakers, J. and Kuramae, E.E. (2019). Impact of the rhizoplane bacterial community composition on drought tolerance of sorghum bicolor (Chapter 4, to be submitted)

**Schlemper, T. R.**, Dimitrov, M. R., Silva Gutierrez, F. A.O., Van Veen, J.A., da Silveira A. P. D., Kuramae, E. E. (2018). Effect of *Burkholderia tropica* and *Herbaspirillum frisingense* strains on sorghum growth is plant genotype dependent. *PeerJ*, 6:e5346

The research described in this thesis was performed at the Department of Microbial Ecology of the Netherlands Institute of Ecology (NIOO/KNAW), Wageningen, The Netherlands and Brazilian Agriculture Research Corporation, Embrapa Milho e Sorgo, Sete Lagoas, Minas Gerais State, Brazil. The doctoral study program was financially supported by Brazilian Coordination for the Improvement of Higher Education Personnel (CAPES: 1549-13-8). Research was also supported by The Netherlands Organization for Scientific Research (NWO, 729.004.003).

This is NIOO-thesis number 163.

Thesis cover: Sorghum field by Ermess (Shutterstock – ref. 645860770).

Cover design and thesis layout by Thiago Roberto Schlemper

Printed by GVO drukkers & vormgevers B.V. ||[www.gvo.nl](http://www.gvo.nl)

Financial support from the Department of Microbial Ecology of the Netherlands Institute of Ecology (NIOO/KNAW) for printing this thesis is gratefully acknowledged.